

Supplementary Table 1: Characteristics of data sources analysed

Survey information					Measured (M) or Self-reported(S)			Diabetes				
Survey	Country	Year (s)	Population	Selection of respondent	BMI	WC	SBP / DBP	Family history of Diabetes	Diabetes biomarker			
									Definition	Fasting (Time if available)	Method	Comment
National Risk Factors Survey (ENFR 2018)	Argentina	2018	Urban male and female residents \geq 18 years old	One individual randomly selected in each household (75% of the whole sample)	M	M	M	¿Has been at least a diabetes diagnosis between your blood relatives (parents, sons, daughters, siblings)?	Fasting glycaemia \geq 126 mg/dL or self-reported diagnosed DM or medication	Yes	POC capillary glucose testing	If insulin-dependent, sample was taken before insulin injection
STEPS Barbados	Barbados	2007	Men and women aged 25-64 years	One individual randomly selected in each household (overall response rate: 65%)	M	M	M	Have some of your family members been diagnosed with the following diseases? Diabetes	FPG \geq 126 mg/dL or self-reported doctor diagnosed DM or medication	Yes (8 - 12 hrs)	Laboratory testing: glucose hexokinase method	If participant was not fasting and no other appointment could be made, the sample was collected and the non-fasting status, recorded
National Health Survey (ENS 2003)	Chile	2003	Men and women \geq 17 years old	Subject previously participated in the Quality of Life Survey in 2000	M	M	M	What other type of family health history do you have? Father with diabetes, Mother with diabetes	FPG \geq 126 mg/dL or self-reported diagnosed DM or medication	Yes (\geq 8 hrs)	Laboratory testing: glucose hexokinase method	
National Health Survey (ENS 2010)	Chile	2010	Men and women \geq 15 years old	Individuals \geq 65 years old had twice the probability to be selected. Only one individual per household	M	M	M	In your immediate family (son, daughter, dad, mom or siblings), has anyone ever gotten sick or died of ...? Diabetes	FPG \geq 126 mg/dL or self-reported diagnosed DM or medication	Yes (\geq 8 hrs)	Laboratory testing: glucose hexokinase method	Does not include gestational diabetes
National Health Survey (ENS 2017)	Chile	2017	Men and women \geq 15 years old	Individuals \geq 65 years old had twice the probability to be selected. Only one individual per household	M	M	M	In your immediate family: Has anyone gotten sick or died from Diabetes (high blood sugar)?	FPG \geq 126 mg/dL or self-reported diagnosed DM or medication	Yes (\geq 8 hrs)	Laboratory testing: glucose hexokinase method	Does not include gestational diabetes

Costa Rican Longevity and Healthy Aging Study (CRELES)	Costa Rica	2005	Men and women \geq 60 years old	Oversampling of the oldest old	M	M	M	Is there anyone in your family who suffers or suffered from diabetes? parents, siblings, grandparents?	FPG \geq 126mg/dL or self-report diagnosed DM or medication	Yes (14 hrs)	Laboratory testing: an enzymatic method for glucose	
Survey of Chronic Noncommunicable Diseases in Adults in El Salvador (ENECA-ELS)	El Salvador	2015	Men and women \geq 20 years old	All individuals corresponding to the target population residing in selected households were included in the sample	M	M	M	Do any of your relatives (mother, father) have diabetes?	FPG \geq 126 mg/dL or self-report diagnosed DM or medication	Yes (8 hrs)	Laboratory testing: glucose hexokinase method	
National Survey of Nutritional, Biochemical, Socioeconomic and Cultural Indicators Related to Chronic Degenerative Diseases Halfway National Health and Nutrition Survey (ENSANUT-MC)	Peru	2005	Men and women \geq 20 years old	No pregnant women as well as subjects who practice bodybuilding and qualified athletes were included	M	M	M	Do you have or have you had blood relatives with glucose problems?	FPG \geq 126 mg/dL or self-report diagnosed DM or medication	Yes	Laboratory testing: Trinder-glucose oxidase-peroxidase method	
National Health and Nutrition Survey (ENSANUT-2018)	Mexico	2016	Men and women \geq 20 years old	One individual randomly selected in each household (60% of the whole sample)	M	M	M	Does your father or mother have or had diabetes or high blood sugar?	FPG \geq 126mg/dL or self-report diagnosed DM or medication	Yes (\geq 8 hrs)	Laboratory testing: glucose oxidase method	Does not include gestational diabetes
National Health and Nutrition Survey (ENSANUT 2018)	Mexico	2018	Men and women \geq 20 years old	The number of selected individuals per household depends on the household size	M	M	M	Now, I will ask you about some diseases that your parents or siblings may have had: Diabetes	FPG \geq 126mg/dL or self-report diagnosed DM or medication	Yes (\geq 8 hrs)	Laboratory testing: glucose oxidase method	There is a question for gestational diabetes
STEPS Uruguay	Uruguay	2006	Men and women aged 25-64 years	One individual randomly selected in each household (response rate: 33.7%)	M	M	M	Have some of your family members been diagnosed with the following diseases?	FPG \geq 126 mg/dL or self-reported diagnosed DM or medication	Yes (8 - 12 hrs)	Laboratory testing: glucose hexokinase method	If participant was not fasting and no other appointment could be made, the sample was collected and the non-fasting status, recorded

STEPS Uruguay	Uruguay	2014	Urban male and female residents aged 15-64 years	One individual randomly selected in each household (response rate: 54.1%)	M	M	M	Have some of your family members been diagnosed with the following diseases?	Fasting glycemia ≥ 126 mg/dL or self-reported diagnosed DM or medication	Yes	POC capillary glucose testing	If participant was not fasting and no other appointment could be made, the sample was collected and the non-fasting status, recorded
STEPS British Virgin Islands	British Virgin Islands	2009	Men and women aged 25-64 years	One individual randomly selected in each household (25%). Pregnant women were not included.	M	M	M	Have some of your family members been diagnosed with the following diseases?	Capillary whole blood value: 26.1 mmol/L (110 mg/dl) or medication	Yes (8 - 12 hrs)	POC capillary glucose testing	

BMI: body mass index; **WC:** waist circumference; **SBP:** systolic blood pressure; **DBP:** diastolic blood pressure; **STEPS:** STEPwise Surveillance; **FPG:** Fasting plasma glucose; **DM:** Diabetes mellitus; **HbA1c:** glycosylated haemoglobin; **POC:** Point-of-care; **HPLC:** high-performance liquid chromatographic